

Appendix A - Law Enforcement Interoperability Questionnaire

INTRODUCTION:

Your agency has been selected to participate in a national study on the use of communication systems for interoperating with other public safety agencies. Participation is voluntary, and your responses will be kept confidential. The data will be analyzed by staff at The National Law Enforcement and Corrections Technology Center and compiled in a final report. Please indicate below if your agency is willing to be contacted by phone to provide additional information regarding the issue of interoperability and return with the completed questionnaire.

DIRECTIONS:

- 1) This questionnaire should be completed by the individual in your agency who is most knowledgeable about communication interoperability. Assistance by other personnel, if needed, is encouraged.
- 2) Read each question carefully.
- 3) Answer where requested by completely filling in the appropriate oval (e.g. ☐).
- 4) PRINT responses where requested. Leave blank spaces to the left of numbers (e.g.).
- 5) The response forms will be scanned electronically, use pencil and make a dark mark. Erase completely to change a response.
- 6) If you wish to expand on the information you are providing, please feel free to make additional comments on page 10 of the questionnaire.
- 7) DO NOT fold, bend, or staple the questionnaire.
- 8) Return the completed questionnaire in the enclosed pre-addressed, stamped envelope as soon as possible.

If you need assistance or additional information, please call Ms. Jeanne Collins at 1-800-416-8086.

Thank you for your participation in this important study.

| DATA SUPPLIED BY: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|--|--|--|---|--|--|--|----------|--|--|--|--|--|--|--------|------------|--|------|--|--|--|--|--|--|--|--|--|
| Agency Contact: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Title: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency address: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City: | | | | | | | | | | | | | | | State: | | | Zip: | | | | | | | | | |
| Enter your 9 digit NCIC-ORI number: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tele:Area code: | | | | | | | | Number : | | | | | | | | Extension: | | | | | | | | | | | |
| FAX:Area code: | | | | | | | | Number : | | | | | | | | | | | | | | | | | | | |
| E-mail address: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Return To: | | | | National Law Enforcement & Corrections Technology Center 2050 East Iliff Avenue - Denver, Colorado 80208 | | | | | | | | | | | | | | | | | | | | | | | |

- ☐ Yes, please send a copy of the executive summary of this study.
- ☐ Yes, my agency is willing to be contacted by phone to provide more information regarding the issue of interoperability.

DEFINITIONS

1) Definition of Interoperability: Essential communication links within or between public safety and public service communication systems that permit units from two or more different agencies to interact with one another and to exchange information according to a prescribed method in order to achieve predictable results. This may include communication between governmental and non-governmental public safety and public service providers.

2) Types of Interoperability: *Day-to-Day, Mutual Aid, and Task Force*

Day-to-Day Interoperability (e.g., High-speed chase across jurisdictions)

- Most often encountered type of interoperability.
- Commonly used in areas of concurrent jurisdiction.
- Commonly used where agencies need to monitor each other's routine traffic.
- If agencies are using different radio bands, may involve the use of multiple radios.

Mutual Aid Interoperability (e.g., Riots or wildland fires)

- Can involve multiple agencies with little opportunity for prior planning.
- Often requires assignment of several to many small groups, each on their talk group or frequency.
- Once on scene, typically involves the use of portable and mobile radios.

Task Force Interoperability (e.g., Counter narcotics operation or major event)

- Usually involves several levels of government (federal, state, and/or local).
- Typically an opportunity for prior planning exists.
- Usually involves use of portable and/or covert equipment.
- Often requires extensive close-range communications.
- Users may rove in and out of infrastructure coverage (metro to rural, in and out of buildings).

3) Types of Organizations Involved: *Public Safety and Public Service*

- Public Safety Organizations include all federal, state, and local agencies that have been given, by law, the responsibility for protecting and preserving life, property and natural resources.
- Public Service Organizations include all agencies that help furnish, maintain, and protect the infrastructures that promote the public's safety and welfare.

4) Examples of Different Levels of Organizations: *Federal, State, and Local*

Federal Level Organizations

- Federal Bureau of Investigation (FBI)
- Bureau of Alcohol, Tobacco, and Firearms (BATF)
- Federal Emergency Management Agency (FEMA)
- Military/Defense Department
- Coast Guard

State Level Organizations

- State Police
- State Bureau of Investigation
- Department of Fish and Wildlife
- Department of Highways/Roads
- State Emergency Preparedness

Local Level Organizations

- City Police Departments
- County Sheriffs Departments
- Fire Departments
- Emergency Medical
- Hospitals
- Private Security

Section I. DESCRIPTIVE INFORMATION

- ☐ Municipal Police Department
- ☐ County Police Department
- ☐ State Police Department
- ☐ Sheriff's Department
- ☐ Special Police Department (e.g., campus police, transit, housing, alcoholic beverage control, or park).

- | | | | | | | |
|--|--|---|--|--|--|-----------|
| | | , | | | | Sworn |
| | | , | | | | Non-sworn |

- | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
- People

- ☐ Coastal or Intracoastal waterway
- ☐ Relatively flat
- ☐ Rolling hills
- ☐ Mountainous
- ☐ Many High-rise Buildings

- | | | | | | | |
|--|--|---|--|--|---|--|
| | | , | | | . | |
|--|--|---|--|--|---|--|
- Square Miles

- 1 2 3 4 5
- ☐ ☐ ☐ ☐ ☐

- ☐ Yes ☐ No

- ☐ Does not apply
- ☐ Low band VHF (25-50 MHz)
- ☐ High band VHF (150-174 MHz)
- ☐ Federal band UHF (406-420 MHz)
- ☐ Low band UHF (450-470 MHz)
- ☐ Low band UHF TV Sharing (470-512 MHz)
- ☐ 800 MHz (806-869 MHz)
- ☐ Other

- | | Daily | Weekly | Monthly | Yearly |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Federal Level? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| State Level? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Local Level? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Section II. OPERATIONS

- ☐ Yes ☐ No

- ☐ "Plain" English
- ☐ Code System
- ☐ Other

- | | Day-to-Day | Mutual Aid | Task Force |
|----------------|-----------------------|-----------------------|-----------------------|
| Federal Level? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| State Level? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Local Level? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

8. Rate your agency's ABILITY to establish a radio communication link with each of the following levels of public safety and/or public service organizations. (where 1 = poor to 5 = excellent.)

| | 1 | 2 | 3 | 4 | 5 |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Federal Level? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| State Level? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Local Level? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

9. Estimate the total number of public safety and/or public service organizations at each level with which your agency requires radio communication.

Number of Organizations

| | | | |
|----------------------|----------------------|----------------------|---------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | Federal Level |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | State Level |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | Local Level |

10. Do you have a written communication interoperability agreement with any of the organizations you indicated in question #9? If no, skip to question #11. If yes, indicate how many for each level.

Number of Organizations

| | | | |
|----------------------|----------------------|----------------------|---------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | Federal Level |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | State Level |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | Local Level |

11. How many mutual aid and task force operations (see definitions on page 2) does your agency participate in during a typical year?

Number of Times

| | | | |
|----------------------|----------------------|----------------------|------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | Mutual Aid |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | Task Force |

12. What is the MAXIMUM number of organizations your agency has had to communicate with during any mutual aid or task force operation?

Maximum # of Organizations

| | | | |
|----------------------|----------------------|----------------------|------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | Mutual Aid |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | Task Force |

13. Rate the ABILITY of your agency's radio system to effectively handle the three types of interoperability as defined on page 2. (where 1 = poor to 5 = excellent)

| | 1 | 2 | 3 | 4 | 5 |
|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Day-to-Day? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mutual Aid? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Task Force? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

14. Rate your agency's OVERALL ABILITY to handle interoperability situations 5 years ago, today, and estimate its ability 5 years into the future. (where 1 = poor to 5 = excellent)

| | 1 | 2 | 3 | 4 | 5 |
|-------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 5 years ago? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Today? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5 years from now? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

15. Based on your agency's experience, indicate the severity of each of the following obstacles to interoperability. (where 1 = not a problem to 5 = major problem)

| | 1 | 2 | 3 | 4 | 5 |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Different Bands? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Human and Institutional Limitations? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Different Communication Modes (analog vs. digital)? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Different Coverage Areas? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Limitations of Commercial Services? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Lack of Adequate Planning? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Limitations in Funding? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

16. What LEVEL of interoperability planning would best serve your agency? Fill in ONLY ONE.

- ☐ Local Region (multi-jurisdiction)
☐ State-wide
☐ Multi-state Region
☐ National

17. To your knowledge, does your state have a formal written interoperability plan?

- ☐ Yes ☐ No - SKIP to question #19

18. How effective is your state's interoperability plan? (where 1 = poor to 5 = excellent)

1 2 3 4 5 Don't Know
☐ ☐ ☐ ☐ ☐ ☐

19. Does your agency currently use the following types of WIRELESS voice and/or data security? Please answer each question with a yes or no.

| | Yes | No |
|---------------------------|-----------------------|-----------------------|
| scrambling devices? | <input type="radio"/> | <input type="radio"/> |
| digital encryption? | <input type="radio"/> | <input type="radio"/> |
| digital voice processing? | <input type="radio"/> | <input type="radio"/> |

20. How essential is WIRELESS voice and/or data security protection to your agency?
 (where 1 = not needed to 5 = essential)

| | 1 | 2 | 3 | 4 | 5 |
|-----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| VOICE Security? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| DATA Security? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

21. HOW OFTEN does your agency use WIRELESS voice and/or data security protection?

| | Never | Dly | Wkly | Mthly | Yrly |
|-----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| VOICE Security? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| DATA Security? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Section III. INFORMATION AND TRAINING

1. How important is each source of information to your agency when planning for the purchase of communication technologies?
 (where 1 = not important to 5 = extremely important)

| | 1 | 2 | 3 | 4 | 5 |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Equipment manufacturers? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Professional journals/magazines? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Professional/Trade Conferences? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Independent consultants? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other government agencies? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Local college or university? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other, specify below: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Does your agency participate in joint training exercises with other organizations that involve the actual use of communication equipment?

☐ Yes ☐ No - SKIP to question #4

3. Regarding question #2 above, indicate the levels of other organizations that participate in the joint training. Include both government and non-government organizations. Fill in ALL that apply.

☐ Federal Level ☐ State Level ☐ Local Level

4. How well do you believe your agency's training has prepared your staff to handle communication interoperability situations? (where 1 = poor to 5 = excellent)

1 2 3 4 5
☐ ☐ ☐ ☐ ☐

5. How familiar is your agency with the following?
 (where 1 = no knowledge to 5 = very knowledgeable)

| | 1 | 2 | 3 | 4 | 5 |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Project 25 Standards? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| FCC Refarming efforts? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| FCC Frequency Application Process? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| NPSPAC Guidelines? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Dept. of Justice Internet Sites? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Section IV. COMMUNICATION SYSTEMS

1. Indicate the types of communication equipment used by your agency. Fill in ALL that apply.

☐ Hand-held land mobile radio
☐ Vehicle-mounted land mobile radio
☐ Citizens band radio
☐ Amateur radio
☐ Telephone line
☐ FAX line
☐ Cellular phone/voice
☐ Cellular FAX
☐ Mobile pagers
☐ Mobile data terminal (Dumb-Terminal)
☐ Mobile laptop computer

2. Which best describes your PRIMARY land mobile radio base system? Fill in ONLY ONE.

☐ Conventional analog (non-trunked)
☐ Conventional digital (non-trunked)
☐
☐

Trunked analog
Trunked digital

3. Does your agency **SHARE** the infrastructure for its land mobile radio base system with other organizations?

☐ Yes ☐ No- SKIP to question #5

4. How involved is your agency in the decision-making process related to the operation of your land mobile radio base system? (where 1 = not at all to 5 = extensively)

1 2 3 4 5
☐ ☐ ☐ ☐ ☐

5. Does your agency own or lease its **PRIMARY** land mobile radio base system? Fill in **ONLY ONE**.

☐ Own ☐ Lease

6. How many of the following are in your land mobile radio base system? If none, place a zero (0) next to the corresponding item.

| | | | |
|--|--|--|-------------------------------|
| | | | Fixed radio transmitter sites |
| | | | Radio repeaters |
| | | | Gateways |
| | | | Relays |

7. Approximately how old is your land mobile radio base system?

years old

8. Identify the radio frequencies your agency **CURRENTLY** uses for **VOICE-ONLY** communication and indicate the current **NUMBER** of channels in those radio frequencies.

| CURRENTLY USES | CURRENT # of VOICE-ONLY channels |
|-------------------|--|
|-------------------|--|

| | |
|---|----------------------|
| <input type="radio"/> None | |
| <input type="radio"/> Low band VHF (25-50 MHz) | <input type="text"/> |
| <input type="radio"/> High band VHF (150-174 MHz) | <input type="text"/> |
| <input type="radio"/> Low band UHF (450-470 MHz) | <input type="text"/> |
| <input type="radio"/> UHF TV Sharing (470-512 MHz) | <input type="text"/> |
| <input type="radio"/> 800 MHz (806-869 MHz) | <input type="text"/> |
| <input type="radio"/> Other | <input type="text"/> |

9. Identify the radio frequencies your agency **CURRENTLY** uses for **DATA-ONLY** communication and indicate the current **NUMBER** of channels in those frequencies.

| CURRENTLY | CURRENT # of DATA-ONLY |
|-----------|---------------------------|
|-----------|---------------------------|

USES

channels

| | |
|---|----------------------|
| <input type="radio"/> None | |
| <input type="radio"/> Low band VHF (25-50 MHz) | <input type="text"/> |
| <input type="radio"/> High band VHF (150-174 MHz) | <input type="text"/> |
| <input type="radio"/> Low band UHF (450-470 MHz) | <input type="text"/> |
| <input type="radio"/> UHF TV Sharing (470-512 MHz) | <input type="text"/> |
| <input type="radio"/> 800 MHz (806-869 MHz) | <input type="text"/> |
| <input type="radio"/> Other | <input type="text"/> |

10. Identify the radio frequencies your agency **CURRENTLY** uses for **ALTERNATE VOICE & DATA** and indicate the current **NUMBER** of channels in those frequencies.

| CURRENTLY USES | CURRENT # of ALTERNATE VOICE & DATA channels |
|-------------------|--|
|-------------------|--|

| | |
|---|----------------------|
| <input type="radio"/> None | |
| <input type="radio"/> Low band VHF (25-50 MHz) | <input type="text"/> |
| <input type="radio"/> High band VHF (150-174 MHz) | <input type="text"/> |
| <input type="radio"/> Low band UHF (450-470 MHz) | <input type="text"/> |
| <input type="radio"/> UHF TV Sharing (470-512 MHz) | <input type="text"/> |
| <input type="radio"/> 800 MHz (806-869 MHz) | <input type="text"/> |
| <input type="radio"/> Other | <input type="text"/> |

11. Does your agency have the ability to patch across channels?

☐ Yes ☐ No - SKIP to question #14

12. How many simultaneous cross patches can be set up?

of cross-patches

13. Is a dispatcher **REQUIRED** to set up and break down the patch?

☐ Yes ☐ No

14. How serious are the following problems regarding your land-mobile radio system?
(where 1 = not a problem to 5 = major problem)

| | 1 | 2 | 3 | 4 | 5 |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Not enough channels? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Not enough talk groups? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Dead spots? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Fading? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Frequency Interference? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Static? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Battery problems? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Not enough equipment? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Outdated equipment? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Equipment Size/Weight? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

15. If you marked "not enough channels" in question #14 as a problem, estimate the number of ADDITIONAL channels your agency needs for each of the following.

| | |
|----------------------|--|
| <input type="text"/> | ADDITIONAL VOICE-ONLY Channels |
| <input type="text"/> | ADDITIONAL DATA-ONLY Channels |
| <input type="text"/> | ADDITIONAL ALTERNATE VOICE & DATA Channels |

16. To what extent does topography/terrain hinder the effectiveness of your land mobile radio base system?
(where 1 = no problem to 5 = major problem)

| 1 | 2 | 3 | 4 | 5 |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

17. Who handles your agency's RADIO SPECTRUM LICENSING issues?

☐ My agency
 ☐ The county
☐ A regional group
 ☐ The state
☐ Other, please specify below

| | | | | | | | | | | | | | | | | | | | |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|

18. What organization handles your RADIO FREQUENCY COORDINATION with the FCC? Fill in ALL that apply.

☐ AAR
☐ APCO
☐ IMSA
☐ NABER
☐ UTC
☐ Other, please specify below

| | | | | | | | | | | | | | | | | | | | |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|

19. Does your agency PAY outsiders for radio spectrum frequency coordination services?

☐ Yes
 ☐ No

20. How many times does your agency interact with a radio spectrum frequency coordinator in a typical year?

Times per year

21. How satisfied is your agency with the following?
(where 1 = very satisfied to 5 = very dissatisfied)

| | 1 | 2 | 3 | 4 | 5 |
|--------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| FCC Licensing procedures? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| FCC Regulations? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| FCC Administrative procedures? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

22. Indicate ALL services your agency USES or PLANS TO USE within the next 5 years. If your agency does not use or plan to use any of the services, please fill here .

| Currently Use | Plan to Use within 5 yrs) | |
|-----------------------|---------------------------|---------------------------------------|
| <input type="radio"/> | <input type="radio"/> | Cellular/Voice |
| <input type="radio"/> | <input type="radio"/> | Cellular Digital Pocket Data (CDPD) |
| <input type="radio"/> | <input type="radio"/> | Personal Communications System (PCS) |
| <input type="radio"/> | <input type="radio"/> | Specialized Mobile Radio (SMR) |
| <input type="radio"/> | <input type="radio"/> | Mobile Satellite System |
| <input type="radio"/> | <input type="radio"/> | Global Positioning System (GPS) |

23. Does your agency use a mobile paging system?

☐ Yes
 ☐ No - SKIP to question #25

24. How serious are the following problems with your mobile paging system?
(where 1 = not a problem to 5 = major problem)

| | 1 | 2 | 3 | 4 | 5 |
|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Delayed receipt of pages? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Lack of coverage? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Garbled pages? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Missed pages? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| False pages? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

25. Does your agency use the Internet for official business?

☐ Yes

☐ No

26. Does your agency use the following external information networks to interoperate with outside organizations? Fill in ALL that apply.

- ☐ National Crime Information Center (NCIC)
☐ National Law Enforcement Teletype System (NLETS)
☐ Local Area Network (LAN)
☐ Wide Area Network (WAN)

27. Does your agency have plans to replace or substantially upgrade its land mobile radio system?

☐ Yes

☐ No - SKIP to question #33

28. In what year does your agency plan to replace or substantially upgrade its land mobile radio base system?

19 or 20

29. What is your agency's PREFERENCE for its NEXT land mobile radio system? Fill in ONLY ONE.

- ☐ Conventional analog (non-trunked)
☐ Conventional digital (non-trunked)
☐ Trunked analog
☐ Trunked digital
☐ Unknown

30. Identify the radio frequencies your agency needs for VOICE-ONLY communication for its NEXT land mobile radio base system and indicate the TOTAL NUMBER of channels it will need in those radio frequencies.

NEEDS

TOTAL # Of
VOICE-ONLY
channels

- ☐ None
☐ Low band VHF (25-50 MHz)
☐ High band VHF (150-174 MHz)
☐ Low band UHF (450-470 MHz)
☐ UHF TV Sharing (470-512 MHz)
☐ 800 MHz (806-869 MHz)
☐ Other

31. Identify the radio frequencies your agency needs for DATA-ONLY communication for its NEXT land mobile radio system and indicate the TOTAL NUMBER of channels it will need in those radio frequencies.

NEEDS

TOTAL # of
DATA-ONLY
channels

- ☐ None
☐ Low band VHF (25-50 MHz)
☐ High band VHF (150-174 MHz)
☐ Low band UHF (450-470 MHz)
☐ UHF TV Sharing (470-512 MHz)
☐ 800 MHz (806-869 MHz)
☐ Other

32. Identify the radio frequencies your agency needs for ALTERNATE VOICE & DATA communication for its NEXT land mobile radio system and indicate the TOTAL NUMBER of channels it will need in those radio frequencies.

NEEDS

channels

TOTAL
ALTERNATE
VOICE & DATA

- ☐ None
☐ Low band VHF (25-50 MHz)
☐ High band VHF (150-174 MHz)
☐ Low band UHF (450-470 MHz)
☐ UHF TV Sharing (470-512 MHz)
☐ 800 MHz (806-869 MHz)
☐ Other

33. What is the TOTAL number of mobile data terminals and/or lap-top computers your agency CURRENTLY uses? If none, place a zero (0) next to the corresponding item.

Mobile Data Terminals (Dumb Terminals)
 # Lap-top Computers

34. What is the TOTAL number of mobile data terminals and/or lap-top computers your agency estimates it WILL USE in the year 1999? If none, place a zero (0) next to the corresponding item.

Mobile Data Terminals (Dumb Terminals)
 # Lap-top Computers

35. Regarding mobile data terminals and lap-top computers identify the types of WIRELESS DATA communication (not voice) your agency currently USES and PLANS TO USE within the next 2 years. Fill in yes or no for each type.

| | Currently Use | | Plans to Use (within 2 years) | |
|--------------------------------------|-----------------------|-----------------------|-------------------------------|-----------------------|
| | Yes | No | Yes | No |
| Free Text? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Data Base Information? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Still Images (e.g., photos or maps)? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Fingerprints? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Video? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

36. Independent of your agency's plans, rate its NEED for the following types of WIRELESS DATA communication. (where 1 = no need to 5 = extreme need)

| | 1 | 2 | 3 | 4 | 5 |
|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Free Text? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Data Base Information? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Still Images (e.g., photos or maps)? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Fingerprints? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Video? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

37. How important will interoperability ISSUES be to your agency when it purchases its next land mobile radio system? (where 1 = not important to 5 = extremely important)

| | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1 | 2 | 3 | 4 | 5 |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

38. How important will interoperability STANDARDS be to your agency when planning for its next land mobile radio system? (where 1 = not important to 5 = extremely important)

| | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1 | 2 | 3 | 4 | 5 |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

39. How likely is it that your agency will adopt the Association for Public Safety Communications Officials (APCO) Project 25 Interoperability Standards for its next land mobile radio system? (where 1 = highly unlikely to 5 = highly likely)

| | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1 | 2 | 3 | 4 | 5 |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Section V ADDITIONAL INFORMATION

*The responses to the following questions will be scanned by a computer.
Please PRINT and stay within the boxes provided. Continue
on the next page, if needed.*

1. Are there any interoperability issues that we should have asked about and did not? ☐ Yes ☐ No
Please explain.

| |
|--|
| |
| |
| |
| |

2. Have you experienced a situation where the ability to interoperate with other agencies was impeded?
☐ Yes ☐ No If yes, briefly describe the situation and adjustments that were made.

| |
|--|
| |
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| |
| |

3. What regulatory or licensing policies/procedures limit your ability to achieve interoperability?

| |
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| |
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| |

4. What operational, technological or political issues do you think should be considered in the planning and implementation of a nationwide WIRELESS network for public safety and emergency preparedness entities at all levels of federal, state and local government ?

| |
|--|
| |
| |
| |
| |

5. As new technologies are introduced and digital communications mature, do you think there should be federal or state mandates with idate-certaini timelines to ensure interoperability? ☐ Yes ☐ No
Please explain your reasons.

| |
|--|
| |
| |
| |
| |

Place additional comments here.

***If continuing comments from one of the questions on page 10,
please note the number of the question.***

[illegible]